

Date: Mon, 25 Oct 93 04:30:26 PDT
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V93 #83
To: Ham-Homebrew

Ham-Homebrew Digest Mon, 25 Oct 93 Volume 93 : Issue 83

Today's Topics:

books on micro stripline circuits
How to do CW with a cb?
SSB/CW project ? (2 msgs)

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 25 Oct 1993 02:07:33 GMT
From: rayssd!rd.ray.com!goldfarb@uunet.uu.net
Subject: books on micro stripline circuits
To: ham-homebrew@ucsd.edu

Add:

"Handbook of microwave integrated circuits" Hoffman, Artech House
Harlon editted the translation of it. It is one of the more useful
books in the field.

Marc >>

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DISCLAIMER: Any opinions expressed in the foregoing message are solely
the authors and do not represent the position of the
Raytheon Company.

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Date: Sun, 24 Oct 1993 04:03:53 GMT
From: dog.ee.lbl.gov!agate!doc.ic.ac.uk!uknet!mcsun!sun4nl!relay.philips.nl!
philica!geertj@network.ucsd.edu
Subject: How to do CW with a cb?
To: ham-homebrew@ucsd.edu

gary@ke4zv.atl.ga.us (Gary Coffman) writes:

>In article <al152511.751337973@academ07> al152511@academ01.mty.itesm.mx (Ricardo
Rodriguez Marroquin) writes:

>>

>> I am looking to practice the code to get an amateur license, and would like to
know if there is a way to make a cb radio to transmute in CW, or how to make it
transmute with a "fake" CW, only using a key to make noise, and communicate with a
partner equipped in the same manner.

>Ok, first to head off the flame war, this is almost certainly an illegal
>activity in your country, it certainly is in the US. In the US the only
>modulations allowed on Class D CB are AM and SSB voice, and operating
>outside the assigned channels is strictly forbidden.

And worse, those 'extra frequencies' are heard for thousand of miles.
(I'm glad the sunspot cycle is diminishing!) Please stay in your allowed
12/22/40 channels, if it is as quiet as you say it is, there should
be no problem using those. (and read about radio propagation once more,
to see what range you have and what damage you do on those 'extra channels'!)

Having said that, the easiest way to make 'CW' is to modulate your CB rig
with a sounder. Simply use a sounder and feed the audio to the rig, if need
be just via the microphone. Switching the transmitter, as required for 'real'
CW, probably doesn't work because the transmitter will chop off a few
ms of each dit and day to switch to transmitter on, and you will both
learn CW using damaged symbols, which is bad.
Also, making 'real' CW probably requires changes in the transceiver which
is forbidden as well. And since you're only training, why not use the
simplest way?

I advise against *sending* CW so soon. Since neither you nor your friend

know CW yet, it is very likely that you will both learn it wrong. Better use a computer to send CW and receive and decode that until you both are on a solid 12/15 WPM, and then start sending. This can be only a few weeks before the exams! If you know the rhythm, sending bad CW is much more difficult. You will also find that sending CW is much easier then.

Good luck, and stay in the rules, huh? Using 'extra channels' makes a very bad start.

73, Geert Jan

Date: Sun, 24 Oct 1993 13:07:19 GMT
From: dog.ee.lbl.gov!agate!library.ucla.edu!europa.eng.gtefsd.com!emory!kd4nc!ke4zv!gary@network.ucsd.edu
Subject: SSB/CW project ?
To: ham-homebrew@ucsd.edu

In article <19930ct23.153920.7267@ringer.cs.utsa.edu> ouzo@Alex.Engr.Trinity.Edu (Petros Petropoulos) writes:

>I have been away from the hobby for 9 years and now that some
>free time materialized I wish to jump in again. However, the
>rig prices I see are through the roof ! Sooo, I have decided
>to buy a receiver (still looking, maybe the FRG-100B, does
>anyone know how good this receiver is ?) and to homebrew the
>transmitter.

Have you priced cars or houses lately? Everything has gone up, but there are still good new HF rigs available for under a kilobuck. The used market is the place to shop, however. You can get a servicable TS-520 for under \$300.

>Here is the question: Does anyone have a project (schematic
>plus construction info, i.e., pcb layouts etc.) for a
>multiband SSB/CW exciter ? Say 0.5 watts ? How about a
>general coverage exciter ?

Well the Handbook has abandoned the home constructor of SSB equipment, nothing but QRP CW rigs in recent editions. However, if you drop back to 1986 you'll find a SSB exciter module. It's not exactly SOTA, and uses a couple of parts that are out of production, however. Rick Campbell had an article in QST about a phasing exciter a few months ago. You might check that out.

What I'd do though is go to the fleamarket and pick up a SSB CB for a few dollars and hack that. If you junk the synthesizer and front end, you can make it into a transceiver for whatever

band you like by substituting your own LO design and mixer/amp combination. The AF, IF, and SSB generator modules are quite servicable as the heart of a ham rig.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

Date: 24 Oct 93 12:50:39 EDT
From: swrinde!emory!europa.eng.gtefsd.com!howland.reston.ans.net!pipex!sunic!
psinntp!psinntp!arrl.org@network.ucsd.edu
Subject: SSB/CW project ?
To: ham-homebrew@ucsd.edu

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(Petros Petropoulos) writes:

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>plus construction info, i.e., pcb layouts etc.) for a
>multiband SSB/CW exciter ? Say 0.5 watts ? How about a
>general coverage exciter ?

So far, the only project I've seen with pcb layouts is the modular HF transceiver, by Mike Grierson G3TSO/KD3CL. It appeared first in the October/November 1993 Radio Society of Great Britain's Radio Communications (often called RadCom) and was reprinted in the August/September 1989 issues of QEX. It does use parts not commonly found in the US, but I've heard of people using their credit cards for international transactions.

Zack Lau KH6CP/1

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End of Ham-Homebrew Digest V93 #83
